Kam Controls Incorporated®
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MEASURING WATER CONCENTRATIONS IN CRUDE OIL

THE KAM® KF KARL FISCHER MOISTURE ANALYZER

PROBLEM: Traditional field and laboratory methods for measuring water in crude oil (distillation and centrifuge) can take 30 minutes to several hours and lack the accuracy crucial for many crude oil transactions.

SOLUTION: KAM CONTROLS pioneered the use of Karl Fischer coulometric titration for measuring water content in crude oil. Measurement takes less than 5 minutes and at 0.1% water, Karl Fischer is 10 times more accurate than centrifuge and 5 times more accurate than distillation.

KAM KF
KARL FISCHER MOISTURE ANALYZER

KEY KAM ADVANTAGES

- Portable and lab models
- Fully automatic operation
- KAM Reagents are packaged in premeasured volumes for quick and convenient reagent replacement
- Automatic electrolysis control and blank current control system
- No reagent calibration and no burettes required
- Bar-graph meters monitor progress of titration
- Titration cell assembly
- Portable model has 10 hours continuous operation on rechargeable battery

TO ORDER REAGENT REFILLS AND ALL OTHER KAM KF KARL FISCHER SUPPLIES

EMAIL: Sales@KAM.com
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STEPS

1. Turn on the unit and press “titration on.” The unit will titrate any ambient moisture in the reagent and beep when it's done.

2. Determine your sample size according to the instructions in the manual, and input it into the moisture analyzer by scrolling through the available sample sizes.

3. Draw some of the sample solution into the syringe and discard into a waste container. Do this three times to fully rinse the syringe and needle with the sample solution.

4. Draw a new sample into the syringe that is slightly larger than the desired sample size.

5. Slowly depress plunger to expel the extra fluid and air bubbles. Stop at the exact volume of the desired sample size.

6. Press reset on the display. You have a thirty-second window to inject the sample.

7. Insert the tip of the needle into the sample injection port and inject the sample into the reagent.

8. Titration begins automatically. When it is done the machine will beep.

* For complete instructions, please see your KAM KF User's Manual